Living Better for Longer: MND Australia Fact Sheet EB8

Considering gastrostomy – PEG and RIG

What you should know

- Motor neurone disease (MND) causes the muscles you have control over to weaken. This can include the muscles involved in chewing and swallowing.
- Gastrostomy is a medical procedure during which a short, fixed tube is placed into the stomach through the abdominal wall. You can have liquid feeds, fluids and medications passed through the tube, directly into your stomach, bypassing your mouth and throat. The tube is the size of a small, narrow straw.
- Best evidence to date suggests that people with MND who have a gastrostomy may live longer and have improved nutrition.
- In Australia, two common methods are used to place the fixed feeding tube: percutaneous endoscopic gastrostomy (PEG) and radiologically inserted gastrostomy (RIG).
- People sometimes delay making the decision to have a gastrostomy. However, it is important to know that other symptoms of MND, such as respiratory muscle weaknesses and malnutrition, can affect your recovery from the procedure or prevent you from having a gastrostomy, so the decision should not be left too late.

About gastrostomy

Gastrostomy is a medical procedure during which a short, fixed tube is placed into the stomach through the abdominal wall. This procedure involves an injection of a local anaesthetic, a small incision and, depending on the type of gastrostomy performed, mild sedation.

Once the tube has been positioned into the stomach it is prevented from moving by a widening of the tube internally and a small flange or collar externally. A cap is placed over the external end of the fixed tube. You can tuck the external end of the tube under your clothes when it is not in use.

Fluids and liquid feed can be passed through the external opening of the tube. This type of feeding is called enteral feeding. It is commonly suggested for people who have complex medical conditions or disabilities affecting their ability to swallow.

The fixed tube generally lasts for one to two years and can usually be replaced easily. Changing the tube does not usually require hospital admission.

Gastrostomy and MND

Motor neurone disease causes the muscles you have control over to weaken, become slow or uncoordinated. This can include the muscles involved in chewing and swallowing.

When a person has weakness in the muscles involved in chewing and swallowing they may eat and drink less than normal, cough during mealtimes, take a long time to eat or be worried and anxious about eating and drinking. Difficulty eating and drinking can result in weight loss, malnutrition, dehydration, aspiration pneumonia and a loss of enjoyment of life.

Gastrostomy enables you to have enteral feeds, fluids and medication through a small fixed tube that is fitted directly into your stomach, bypassing your mouth and throat. If you have lost weight or have become dehydrated through inadequate nutrition, enteral feeding may increase or maintain your weight, improve hydration and help to reduce tiredness and hunger. Some people with motor neurone disease can continue to take some foods and fluids by mouth after a gastrostomy.

Best evidence to date suggests that people with motor neurone disease who have a gastrostomy to achieve adequate nutrition may live longer. Your motor neurone disease will, however, continue to progress with or without a gastrostomy.
Types of gastrostomy

In Australia, two common methods are used to place the fixed feeding tube. Both usually involve mild sedation and a hospital stay of several days. Talk to your doctor about the right type of gastrostomy for you.

Percutaneous Endoscopic Gastrostomy (PEG)

PEG takes about 30 minutes to complete.

1. An endoscope, a flexible instrument used to examine the inside of the stomach, is passed via the mouth into the stomach and, after the area has been anaesthetised, a small incision is made through the abdominal wall.
2. A guidewire is inserted into the incision from the outside
3. The guidewire is brought up through the endoscope into the stomach with the feeding tube attached.

Radiologically Inserted Gastrostomy (RIG)

RIG takes about 60 minutes to complete.

1. A fine, soft tube is inserted via the nose into the stomach. A liquid which shows up on an X-ray is passed down the tube into the stomach.
2. A local anaesthetic is injected into the abdominal skin and a small incision is made. The feeding tube is then inserted through the incision using X-ray guidance.
3. Several stitches are used to close the incision.

Points to think about

Hospital

Sometimes, people with motor neuron disease who have a gastrostomy need specialised respiratory management during the procedure.

Having your gastrostomy at a hospital that is very familiar with the particular health needs of people with motor neuron disease may reduce your risk of complications.

Complications

Complications of gastrostomy for people with motor neuron disease have included tube displacement, tube obstruction, infection, gastrostomy failure and, less commonly, gastric haemorrhage and death during, or in the weeks following, the procedure. Researchers have noted that there is a need to better understand the impact of gastrostomy, including its complications, and how it affects quality of life.

Getting advice about gastrostomy

To get advice about gastrostomy, talk with your general practitioner, neurologist, speech pathologist, dietitian, MND clinic or service or your MND Association. The online MND decision tool can also help you learn more about your options: https://mnddecisiontools.com/public/1/decision_tool

References


Living Better for Longer: MND Australia evidence-based fact sheets

MND evidence-based interventions - an overview (EB1)

Breathing and motor neuron disease: an introduction (EB2)

Breathing and motor neuron disease: what you can do (EB3)

Breathing and motor neuron disease: medications and non-invasive ventilation (EB4)

Multidisciplinary care (EB5)

Multidisciplinary care team (EB6)

Riluzole (EB7)

Considering gastrostomy - PEG and RIG (EB8)

To find out about motor neuron disease and other fact sheets in this series contact the MND Association in your state or territory ph. 1800 777 175 or visit www.mndaustalia.org.au